

FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch



2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. The multicast filter will block PROFINET PTCP-Delay traffic

Product description

FL SWITCH SFN... Factoryline switches with standard functions can be used for quick and cost-effective Ethernet network expansion to the field level. The narrow housing design makes them suitable for universal remote use in control cabinets and junction boxes.

FL SWITCH SFN...-PN switches have a unique multicast filter that blocks PROFINET PTCP-Delay traffic.

Switching properties

- Multi-address function

The switch independently learns the addresses of termination devices connected to a port by evaluating the source addresses in the data. Only packets with unknown addresses, with a source address of this port or with a multicast/broadcast address in the destination address field are forwarded via the corresponding port. Up to 2048 MAC addresses can be stored.

- Quality of service

In cases of heavy traffic, packets with an 802.1Q priority level between 4 and 7 or with an IPv4 Type of Service Precedence value of one or more are considered high priority and are processed before packets with an 802.1Q priority level between 0 and 3 or an IPv4 Type of Service Precedence value of 0.

- Multicast filtering

The multicast filter will block PROFINET PTCP-Delay traffic by filtering frames with the destination MAC address in the range 01-80-C2-00-00-02 through 01-80-C2-00-00-0F. Note that the filter blocks LLDP traffic because PTCP-Delay uses the same MAC address (01-80-C2-00-00-0E).

- Security

Low cost, low complexity security (optional) elements are available to restrict access or tampering.

- Wiring

Power connection is via a removable COMBICON connector. US is +24 V DC and GND is 0 V DC. FE is via a separate screw.

Your advantages

- QoS-prioritized (Quality of Service) messages
- Multicast filter to block PROFINET PTCP-Delay traffic
- RJ45 ports support a transmission speed of 10/100 Mbps
- Local diagnostic indicators with LEDs
- The switch also offers cable locking and port blocking
- Auto negotiation and autocrossing detection simplifies installation and setup

Commercial data

Item number	2891151
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNN113
Catalog page	Page 290 (C-6-2019)

FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch



2891151

<https://www.phoenixcontact.com/pc/products/2891151>

GTIN	4046356997294
Weight per piece (including packing)	466.3 g
Weight per piece (excluding packing)	265 g
Customs tariff number	85176200
Country of origin	TW

FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch



2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Technical data

Dimensions

Width	30 mm
Height	130 mm
Depth	100 mm

Material specifications

Housing material	Aluminum
------------------	----------

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Ethernet in RJ45 twisted pair
No. of channels	5 (RJ45 ports)

Product properties

Product type	Switch
Product family	Unmanaged Switch SFN
Type	Block design
MTTF	192.9 Years

Switch functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
PROFINET conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: U _S , link and activity per port
Additional functions	Autonegotiation

Security functions

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
-----------------	---

Electrical properties

Maximum power dissipation for nominal condition	2.16 W
Transmission medium	Copper

Supply

Supply voltage (DC)	24 V DC
Supply voltage range	9 V DC ... 32 V DC

2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	90 mA (at U _S = 24 V DC)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (up to 1500 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (up to 3500 m above sea level)

EMC data

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion B
Noise immunity	EN 61000-6-2:2005
Noise emission	EN 61000-6-4

System properties

Functionality

Basic functions	Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode
-----------------	---

Signaling

Status display	LEDs: U _S , link and activity per port
----------------	---

FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch

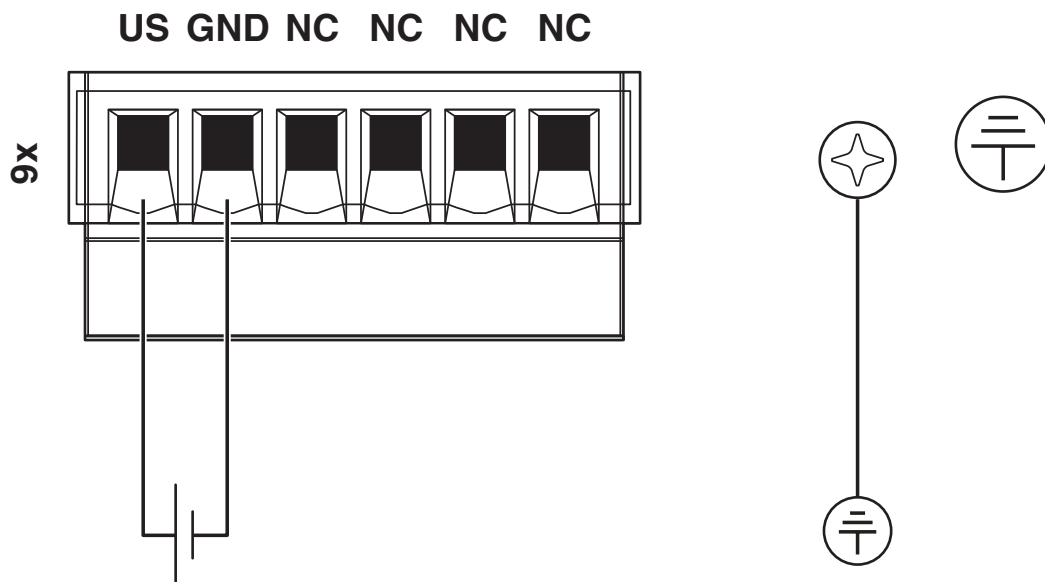


2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Drawings

Connection diagram



FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch



2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2891151>



EAC

Approval ID: RU*-DE.*.B.00741/19



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

cULus Listed

FL SWITCH SFN 5TX-PN - Industrial Ethernet Switch



2891151

<https://www.phoenixcontact.com/pc/products/2891151>

Classifications

ECLASS

ECLASS-11.0	19170402
-------------	----------

ETIM

ETIM 9.0	EC000734
----------	----------

UNSPSC

UNSPSC 21.0	43222600
-------------	----------

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-10
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)